# Figure 1A (1V; antiparallel PNA probe)

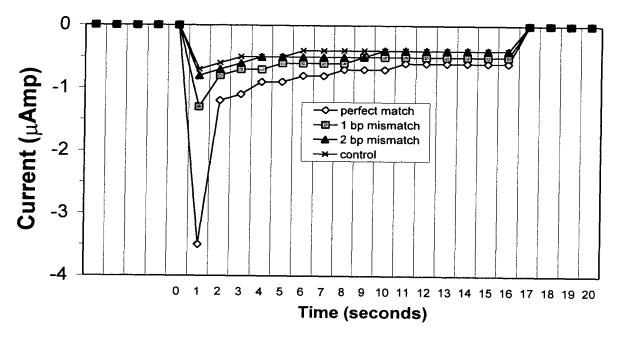
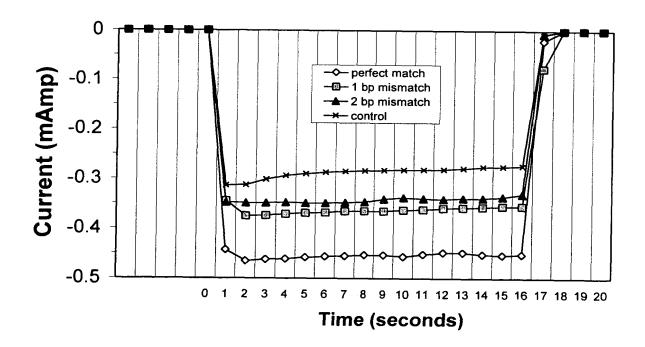


Figure 1B (5V; antiparallel PNA probe)



## Figure 1C (1V; antiparallel PNA probe)

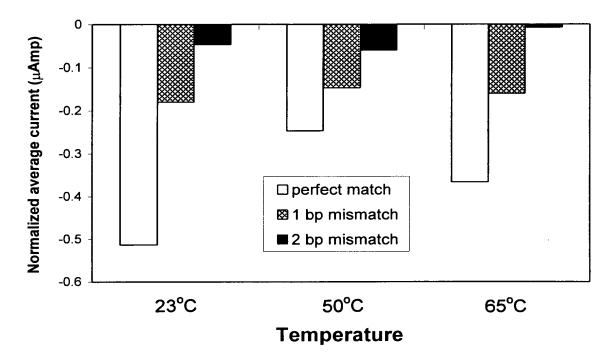
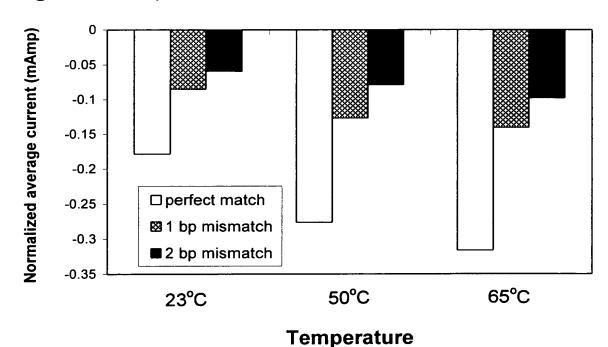
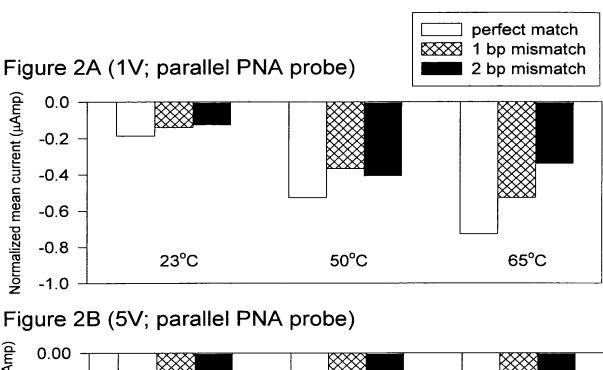


Figure 1D (5V; antiparallel PNA probe)





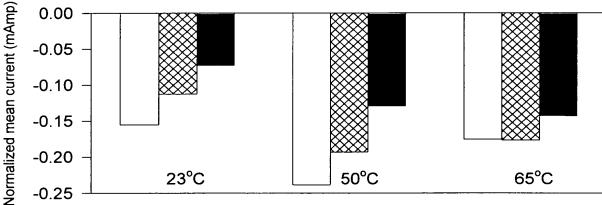


Figure 2C (5V; parallel PNA probe; 65°C treatment)

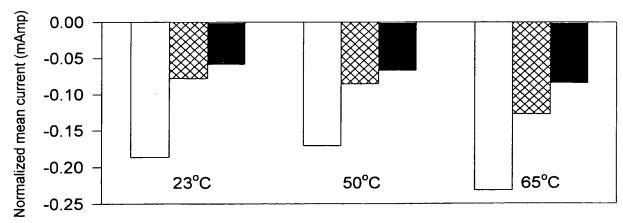
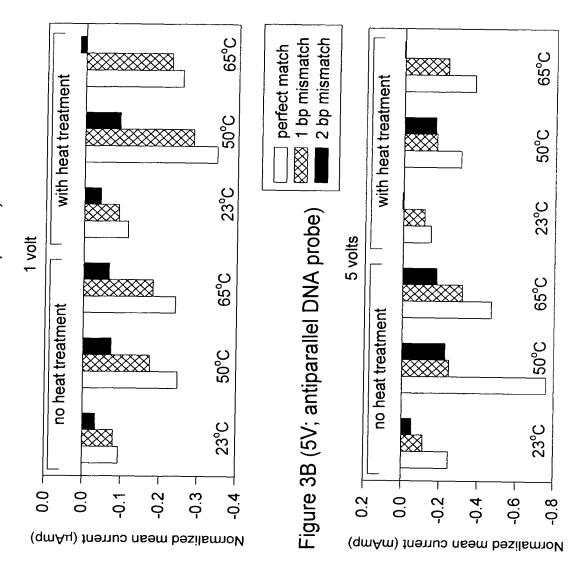
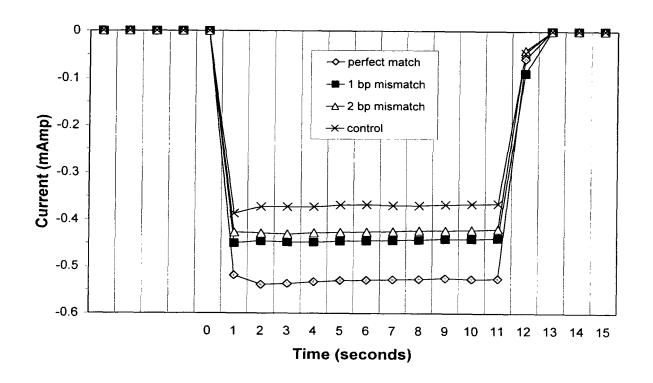


Figure 3A (1V; antiparallel DNA probe)



## Figure 4 (5V; DNA probe with attached acridine)



#### Figure 5A (PNA:DNA perfect match; 65°C)

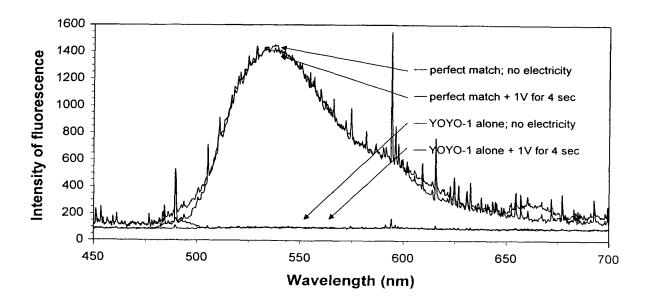
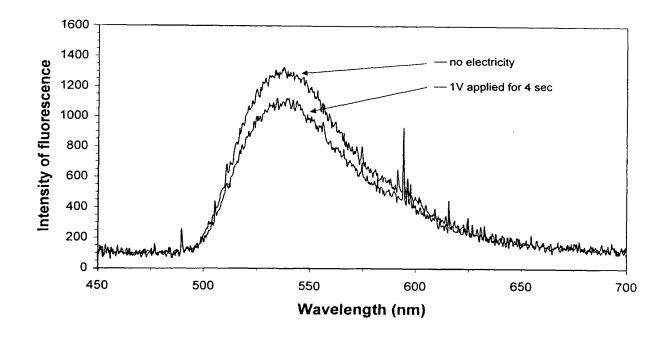
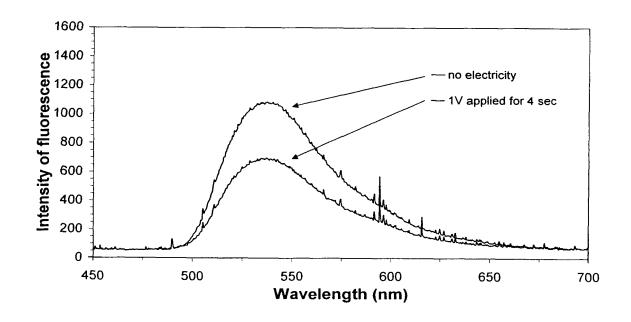


Figure 5B (PNA:DNA 1bp mismatch; 65°C)



#### Figure 5C (PNA:DNA 2bp mismatch; 65°C)



1 bp G-T mismatch + 20V for 3 sec YOYO-1 (250 nM) + 20V for 3 sec 1 bp G-T mismatch; no electricity - YOYO-1 (250 nM); no electricity 2 bp mismatch + 20V for 3 sec perfect match + 20V for 3 sec 2 bp mismatch; no electricity 700 perfect match; no electricity Figure 6. ssPNA:dsDNA hybridization at 23°C without prior 650 900 Wavelength (nm) denaturation 550 500 450 400 0 Intensity of fluorescence 400 200 3400 3200 3000 2800 2600 800 900